

applied catalysis

AN INTERNATIONAL JOURNAL DEVOTED TO CATALYTIC SCIENCE AND ITS APPLICATIONS

VOL. 36, NO. 1-2

CONTENTS

JANUARY 15, 1988

(Abstracts/Contents Lists published in API Abstracts/Catalysts & Catalysis, Chemical Abstracts, Current Contents/Physical, Chemical & Earth Sciences, Current Contents/Engineering, Technology & Applied Sciences, Engineering Index, Metals Abstracts, Science Citation Index, Theoretical Chemical Engineering Abstracts, Automatic Subject Citation Alert and SCISEARCH)

Editorial	v
Synthesis of methanol. Part 1. Catalysts and kinetics (Review) G.C. Chinchin, P.J. Denny, J.R. Jennings, M.S. Spencer and K.C. Waugh (Billingham, U.K.)	1
Activity and deactivation of a catalyst for vinyl acetate synthesis in an industrial fluidized reactor T. Kawaguchi and T. Wakasugi (Osaka, Japan)	67
Conversion of propan-2-ol on silica supported chromium oxide. II. Catalytic results M. Richter and G. Öhlmann (Berlin, G.D.R.)	81
Chrysocolla as a methanation catalyst support Q.-C. Shi and J.L. Falconer (Boulder, CO, U.S.A.) and T.P. Chen (Wheatridge, CO, U.S.A.)	95
Optimum chlorine content on a commercially operated Pt-Re/Al ₂ O ₃ -Cl catalyst as a function of the specific surface area J.M. Grau, E.L. Jablonski, C.L. Pieck, R.J. Verderone and J.M. Parera (Santa Fe, Argentina)	109
Spectroscopic study of the vanadium-phosphate catalyst used in the selective oxidation of n-butane to maleic anhydride J. Čurilla and R. Domanský (Košice, Czechoslovakia) and B. Wichterlová (Prague, Czechoslovakia)	119
Liquid phase isomerization of C ₆ -C ₈ alkenes on heteropolyoxometalates V.S. Nayak and J.B. Moffat (Waterloo, Canada)	127
Partial oxidation of methane catalyzed by H-mordenite and fluorinated mordenite S. Kowalak and J.B. Moffat (Waterloo, Canada)	139
Effects of support on carbon formation and gasification on nickel during carbon monoxide hydrogenation C.H. Bartholomew, M.V. Strasburg and H.-Y. Hsieh (Provo, UT, U.S.A.)	147
Effect of catalyst preparation on catalytic activity. V. Chemical structures on nickel/alumina catalysts Y.-J. Huang and J.A. Schwarz (Syracuse, NY, U.S.A.) and J.R. Diehl and J.P. Baltrus (Pittsburgh, PA, U.S.A.)	163

(continued overleaf)

Contents (continued)

Effect of catalyst preparation on catalytic activity. VI. Chemical structures on nickel/alumina catalysts: their impact on the rate-determining step in the hydrogenation of carbon monoxide Y.-J. Huang and J.A. Schwarz (Syracuse, NY, U.S.A.)	177
Aldol addition of acetone, catalyzed by solid base catalysts: magnesium oxide, calcium oxide, strontium oxide, barium oxide, lanthanum(III) oxide and zirconium oxide G. Zhang, H. Hattori and K. Tanabe (Sapporo, Japan)	189
Effect of carbon deposits on carbon monoxide hydrogenation over alumina-supported cobalt catalyst D.-K. Lee, J.-H. Lee and S.-K. Ihm (Seoul, Korea)	199
Investigation of nickel oxide on alumina aerogel catalysts promoted with magnesia or iron oxide for nitroxidation of propylene into acrylo- and acetonitriles M. Rahman, R.J. Willey and S.J. Teichner (Boston, MA, U.S.A.)	209
Vapor-phase aldol condensation of formaldehyde with propionic acid on vanadium pentoxide-phosphorus pentoxide M. Ai (Yokohama, Japan)	221
Kinetics and selectivity of deep catalytic oxidation of n-hexane and benzene S.K. Gangwal, M.F. Mullins, J.J. Spivey, P.R. Caffrey and B.A. Tichenor (Triangle Park, NC, U.S.A.)	231
Control of the porous structure of amorphous silica-alumina. V. The effect of compaction R. Snel (Pretoria, South Africa)	249
Role of sulphur in catalytic reforming of hydrocarbons on platinum/alumina G.M. Bickle, J. Biswas and D.D. Do (St. Lucia, Australia)	259
Deactivation by coking of platinum/alumina catalysts. Effects of operating temperature and pressure J. Barbier, E. Churin, P. Marecot and J.C. Menezes (Poitiers, France)	277
Microcalorimetric investigation of the interaction of carbon monoxide with coprecipitated cupric oxide-zinc oxide catalysts in well-defined oxidation states E. Giamello, B. Fubini and V. Bolis (Turin, Italy)	287
Transformation of C ₁ -C ₄ alcohols into hydrocarbons on an amorphous silica-alumina catalyst R.A. Comelli and N.S. Figoli (Santa Fe, Argentina)	299
Hydrogenation of but-1-yne and but-1-ene on palladium catalysts. Particle size effect S. Hub, L. Hilaire and R. Touroude (Strasbourg, France)	307
Comparative calorimetric studies of the acidity of zeolites by static and temperature-programmed methods of ammonia adsorption and desorption A. Auroux, Y.S. Jin and J.C. Vedrine (Villeurbanne, France) and L. Benoist (Caluire, France)	323

Letters to the Editor

Dehydrocyclization controlling site in bifunctional reforming catalysts J. Margitfalvi and S. Göbölös (Budapest, Hungary)	331
--	-----

Reply to "Dehydrocyclization controlling site in bifunctional reforming catalysts" V.K. Shum (Naperville, IL, U.S.A.) and J.B. Butt and W.M.H. Sachtler (Evanston, IL, U.S.A.)	337
--	-----

News Brief

Methane to aromatics	342
Pore sizes in zeolites	342
James Idol receives Ciapetta Lectureship	342
Forthcoming Meetings	342
Bioleaching of catalysts?	343
Catalysis—science and technology	344
Book on zeolites	344
Hydrothermal processing technology	344
New supports	344
Surfactants in catalysis	344
Zeolite regeneration	344
Personal accounts of new developments	345
Catalysis Society Newsletter	345
Calendar of Forthcoming Events	346
Book Review	349
Meeting Reports	350
Tailpiece	353

<i>Author Index</i>	355
<i>Subject Index</i>	357

In articles with more than one author, the name of the author to whom correspondence should be addressed is indicated in the article heading by a 6-pointed asterisk (*)



